

AIM Ann Report  
1890 to 1891

REPORT

OF THE

Auckland Institute

AND

MUSEUM

FOR 1890-91.

---

*Adopted at the Annual Meeting held on  
February 16th, 1891.*

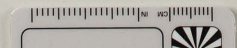
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Auckland :

WILSONS AND HORTON, PRINTERS, QUEEN AND WYNDHAM STREETS.

MDCCCXCI.

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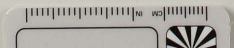
MUSEUM

FOR 1890-91

Printed at the Auckland Institute and Museum, 1891.

ALBERT R. MASON, PRINTING AND BOOKBINDING, 1891.

1891



OFFICERS

OF THE

AUCKLAND INSTITUTE.

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Professor F. D. BROWN, F.C.S.

Vice-Presidents:

J. STEWART, Esq., C.E.

J. MARTIN, Esq., F.R.G.S.

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WITHY, E., Esq.

Trustees:

MACKECHNIE, E. A., Esq.

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Secretary and Treasurer:

T. F. CHEESEMAN, Esq., F.L.S., F.Z.S.

Auditor:

J. REID, Esq.

THE FOLLOWING

*Magazines and Periodicals*

ARE CIRCULATED AMONGST THE MEMBERS:—

Quarterly Journal of Microscopical Science  
The Ibis  
Nature  
Geological Magazine  
Lancet  
Scientific American  
The Academy  
Knowledge  
Botanical Magazine  
Annals of Botany  
Gardeners' Chronicle  
Chemical News  
Engineering  
Science Gossip  
Electrical and Telegraphic Review  
Journal of the Society of Arts  
Annals and Magazine of Natural History  
The Philosophical Magazine  
American Journal of Science

## REPORT.

THE Council have the pleasure of placing before the members the usual annual report on the progress and financial condition of the Institute.

**Members.**—Thirteen new members have been elected during the year. On the other hand, twenty-four names have been withdrawn from the roll; three from death, fifteen from resignation, and six from non-payment of subscription for two consecutive years. The net loss is thus eleven, the number on the roll now standing at 205. With the arrival of brighter times the list of members will doubtless soon regain its former position. The Council hope that all members of the community taking a sincere interest in the spread of scientific knowledge and its applications will think it a pleasure as well as a duty to contribute to the support of the Institute.

Among the names removed from the roll by death is that of Mr. R. C. Barstow, one of the past Presidents of the Institute, and for several years a member of the Council. Mr. Barstow has been connected with the Institute since its foundation, having been one of the original members. He has always taken a warm and active interest in its progress, and it is with sincere regret that the Council report his decease.

**Finance.**—A full statement of the financial position of the Society is given in the appended balance sheets, but the following synopsis may be useful to the members. The total income of the general account, excluding the balance in hand at the commencement of the year, has been £861 14s. 3d. This compares favourably with the amount for the previous year, which was £827 17s. 8d. The sum received for members' subscriptions has been £164 17s., being very nearly equal to that realized last year. The invested funds of the Costley bequest have yielded an income of £573 2s. 1d. The net receipts of the Museum Endowment Account have been £62. The expenditure has been unusually heavy, and has absorbed most of the large balance on hand at the commencement of the year, the total amount being £987 8s. 9d., leaving a balance in the Bank of New Zealand of £79. The chief items of extraordinary expenditure have been the cost of certain necessary repairs to the walls of the Museum Buildings, and the adjoining wooden buildings;



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the setting up of Mr. Adams' Bornean collection, its freight from America, and the construction of a large show-case to contain it; the purchase of a portion of Mr. Alma Baker's Maori collection; and the cost of a consignment of books from London.

**Museum Endowment.**—There is little to say under this head. The Crown Lands Board have just completed arrangements for putting up to sale the Waikanae endowment, which contains a large quantity of kauri timber, and which should realize a considerable sum. Steps are also being taken to utilize some of the smaller endowments.

**Meetings.**—Twelve meetings have been held during the year. The following is a list of the papers read:—

1. Introductory Address:—By the President, JAS. STEWART, Esq., C.E.
2. Reminiscences of Egypt:—By Sir W. Fox.
3. Language; or, the Origin of Abstract Ideas:—By F. D. FENTON.
4. Foods of the Ancient Maori:—By J. A. POND.
5. On the Microscopic Structure of Ohinemuri Gold:—By Dr. R. Hauesler.
6. Note on the Habits of the Kingfisher:—By J. W. HALL.
7. Kakapo or Takahe:—By JAMES PARK, F.G.S.
8. The Birds of the Kermadec Islands:—By T. F. CHEESEMAN, F.L.S.
9. The Age of Pulp:—By the Rev. P. WALSH.
10. John Dalton and his Work:—By Prof. F. D. BROWN.
11. The Remarkable Character of the New Zealand Fauna:—By J. T. NOTT.
12. On Spontaneous Division in Star-fish:—By Prof. A. P. W. THOMAS, F.L.S.
13. On the Ribbon Microtome:—By Prof. A. P. W. THOMAS.
14. Notice of the Occurrence of the Basking Shark in New Zealand:—By T. F. CHEESEMAN.
15. The Story of John Rutherford:—By Archdeacon W. L. WILLIAMS.
16. Milk as a Vehicle of Disease:—By Dr. E. ROBERTON.
17. Immortality in the Animal World:—By Prof. A. P. W. THOMAS.
18. New Species of Spiders:—By A. T. URQUHART.



19. On the Thermal Springs in Lake Waikare:—By H. D. HASZARD.
20. Further Notes on the Three Kings Islands:—By T. F. CHEESEMAM, F.L.S.
21. The Study of Shakspeare:—By E. A. MACKECHNIE.
22. British Influence in South Africa:—By C. P. NEWCOMBE.

A selection from the above will appear in the 23rd volume of "Transactions," now being sent to the press.

**Museum.**—There has been a satisfactory attendance of visitors during the year. On Sundays a register has been kept by the attendant, which shows the total number to be 8996, or an average of 173 for each Sunday. On week-days the number of visitors varies very much, and in the absence of any recording mechanism it is difficult to form an estimate that will be approximately correct. Probably the average daily attendance has been about 70. This, together with the number given for Sundays, would give a yearly total of 30,906.

The Bornean animals purchased from Mr. C. F. Adams have been received during the year, and have been placed in a new show case specially erected for them in the centre of the Museum Hall. They have been elegantly mounted by Mr. Adams, and have attracted much notice. Among other things, the collection includes a remarkably fine adult male Orang-utan, a Gibbon, a Proboscis Monkey, and several smaller monkeys, a Sun Bear, Flying Lemur, Tarsius, and others of the peculiar animals of the Malay Archipelago. In many respects it is the most important addition received by the Museum for several years. An interesting exchange has been received from the United States National Museum, Washington, in the shape of a complete skeleton of a Bison. As this animal is now on the verge of extinction, the acquisition must be considered most important. Several other noteworthy additions have been made in the various branches of zoology, but as they are all mentioned in the appended list it is not necessary to particularise them here.

Some valuable Maori ethnological specimens have been acquired by purchase from Mr. Alma Baker, on his departure from the colony. Several of the articles deserve special mention, particularly a fine greenstone *mere* known as Te Maunga-a-Rongo, or "The Peace-maker," which was formerly the property of the well-known chief Te Kooti. Another *mere* of the kind called tangiwai is remarkable for its extreme translucency. The collection also includes the elaborately carved prow and stern-post of a war canoe built at Whakatane about 1835, both of which are excellent specimens of Maori workmanship.

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The Council have great pleasure in stating that Capt. Gilbert Mair has deposited in the Museum the whole of his Maori collection, universally admitted to be one of the most complete in New Zealand. Visitors to the Dunedin Exhibition will remember how largely the Early History Court was indebted to this collection for its success, and there can be no doubt that as an illustration of the manners and customs of the Maori race it has few equals. The specimens are numerous, in excellent condition, and of undoubted authenticity, while several of them are almost unique. The Council are sure that the members will agree with them that the thanks of the Institute are due to Capt. Mair for placing his collection in an institution where it will be open for the inspection of the public, and for the study of those specially interested in Maori history and ethnology. The collection is not yet unpacked; but arrangements have been made for the construction of a large show case to be specially devoted to it, and on its completion no time will be lost in placing the specimens on exhibition.

The Mackelvie collection of paintings and other art treasures, for so many years lodged in the Museum, has been removed by the trustees and placed in the Auckland Art Gallery. The space occupied by it will thus be available for the exhibition of Capt. Mair's collection and the Maori articles recently purchased.

The enlargement of the Museum is a matter that has not been forgotten by the Council, although they have not found it possible to take any active measures during the year. It is hoped that the approaching sales of Museum endowments may so far increase the capital of the Endowment Fund as to provide a yearly revenue for the maintenance of the Museum; for the large reduction in the amount of subscriptions received proves that it would be unsafe to expend any considerable part of the Costley bequest in erecting a building until its place is thus supplied.

**Library.**—A considerable expenditure has been incurred in the library during the year. Among the books purchased may be mentioned a set of the Philosophical Transactions of the Royal Society from 1854 onwards, and several volumes of the Transactions of the Zoological Society. A full list of all additions will be found appended to the Report. The scientific magazines and periodicals subscribed to by the Institute, a list of which will be found on another page, have been regularly received, and have been open for circulation among the members.

**Thanks.**—As in previous years, the thanks of the Society are tendered to the numerous donors to the Museum and Library whose names are given in the appended lists. Acknowledgments are also due to Messrs. W. K. Graham & Co., and Mr. Hugh Craig, for their services as agents of the Institute in London and San Francisco respectively; also to the Union Steamship Company and the Oceanic Steamship Company for their liberality in carrying, freight free, packages intended for the Museum.

The Treasurer in Account with the Auckland Institute.

FEBRUARY 10, 1890, TO FEBRUARY 3, 1891.

	£	s.	d.			£	s.	d.
Balance in the Bank of New Zealand, February 19,				Books, Periodicals, and Magazines, Binding	...	140	2	6
1890	...	...	...	Additions to Museum	...	121	9	5
Entrance Fees and Subscriptions..	...	...	...	Museum Requisites	...	36	16	2
Rents	...	...	...	Printing, Advertising, Insurance, Gas, Stationery,				
Interest from Costley Bequest	...	...	...	Postages, etc.	...	141	17	6
Rents and Profits transferred from Museum Endow-				Salaries	...	394	4	6
ment Account	...	...	...	New Show Case...	...	44	4	0
Miscellaneous	...	...	...	Repairs to Buildings	...	71	9	8
				Expenses of Adams' Collection in transit	...	30	3	3
				Miscellaneous	...	7	1	9
				Balance in Bank of New Zealand, February 3, 1891		79	0	0
	£1,066	8	9			£1,066	8	9

February 3, 1891.

T. F. CHEESEMAN, TREASURER.

Examined, and found to be correct,

JOHN REID, AUDITOR.

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# INVESTMENT FUND ACCOUNT.

FEBRUARY 10, 1890, TO FEBRUARY 2, 1891.

	£	s.	d.		£	s.	d.
Balance in Auckland Savings Bank, February 10,				Balance in Auckland Savings Bank, February 2,			
1890	149	19	6	1891	157	8	6
Interest to December 31, 1890		7	9				
	£157	8	6		£157	8	6

# MUSEUM ENDOWMENT ACCOUNT.

	£	s.	d.		£	s.	d.
Balance in the Bank of New Zealand, February 10,				Insurance, Agency, and other expenses		7	16
1890	10	13	5	Transferred to General Account		62	0
Rents and Interest on Investments		69	16	Balance in Bank of New Zealand, February 2, 1891...		10	13
	£80	9	11		£80	9	11

February 3, 1891.

T. F. CHEESEMAN, TREASURER.

Examined, and found to be correct,

JOHN REID, AUDITOR.

*INVESTMENTS OF THE AUCKLAND INSTITUTE.*

	£	s.	d.
<b>COSTLEY BEQUEST—</b>			
On Mortgage on Freehold Security at 6 per cent. ...	7,000	0	0
On Mortgage on Freehold Security at 6½ per cent. ...	650	0	0
Deposited with the Industrial and Provident Building Society at 5 per cent. ...	1,550	0	0
<b>NATHAN BEQUEST—</b>			
Deposited in Auckland Savings Bank at 5 per cent. ...	115	16	8
<b>MUSEUM ENDOWMENT—</b>			
On Mortgage on Freehold Security at 7 per cent. ...	900	0	0
On Mortgage on Freehold Security at 7 per cent. ...	270	0	0
Deposited in Auckland Savings Bank at 5 per cent. ...	91	16	8
<b>INVESTMENT FUND FOR LIFE SUBSCRIPTIONS—</b>			
Deposited in Auckland Savings Bank at 5 per cent. ...	157	8	6
<b>TOTAL INVESTMENTS</b> ...	£10,735	1	10

T. F. CHEESEMAM,  
TREASURER.

Documents examined and found to be in order.

JOHN REID,  
AUDITOR.

February 3, 1891.

## ADDITIONS AND DONATIONS

TO THE

LIBRARY AND MUSEUM.

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- Report of the Geological Survey, No. 20; Report of the Colonial Museum and Laboratory for 1888-89; Studies in Biology, No. 4; Catalogues of the Library of the Colonial Museum. The Director of the Geological Survey.
- Parliamentary Papers and Reports; New Zealand Hansard for 1890; New Zealand Statistics; Report on the Statistics of New Zealand. The New Zealand Government.
- Statistics of Tasmania for 1889; Walsh's Tasmanian Almanac for 1891; Tasmanian Official Record for 1890. The Colonial Secretary, Tasmania.
- Victorian Year Book for 1889-90. The Government Statist, Victoria.
- McCoy's Prodrromus of the Zoology of Victoria, Decade 20. The Chief Secretary, Victoria.
- Transactions of the Royal Society of Victoria, Vol. I., Part 2; Proceedings, Vol. II., New Series. The Society.
- Journals and Proceedings of the Royal Society of New South Wales, Vol. XXIII. and Vol. XXIV., Part 1. The Society.
- Annual Report of the Department of Mines, N.S.W., and other Publications. The Department of Mines.
- Official Gazette of the United States Patent Office; United States Consular Reports. The United States Government.
- Insect Life, parts of Vols. II. and III.; Bulletins of the U.S. Department of Agriculture; Bibliography of Economic Entomology. The Department of Agriculture, Washington, U.S.A.
- Reports of the Smithsonian Institution for 1886, Part 2, and 1887, Parts 1 and 2; Proceedings of the U.S. National Museum, Vols. X., XI., XII.; Bulletins of the Museum, Nos. 33 to 38. The Smithsonian Institution, Washington, U.S.A.
- Proceedings of the American Association for 1888. The Association.
- Report of the Geological and Natural History Survey of Minnesota for 1888; Bulletins of the Survey. The State Geologist, Minnesota.
- Bulletins of the Laboratories of Natural History, Iowa, Vols. I. and II. The State University, Iowa.
- Annual Report of the Museum of Comparative Zoology, Harvard, U.S.A. Prof. A. Agassiz.
- Eighth Annual Report of the Milwaukee Museum. The Museum.
- Report of the Geological Survey of Canada for 1887-88, Part 2. The Geological Survey, Canada.
- Proceedings of the Institute of Nova Scotia, Vol. VII. The Institute.
- Seventh Report of the State Mineralogist, California; First and Second Reports of the Board of Forestry, California. G. P. Pierce.
- Monthly Reports of the Observatory of Rio Janiero, Brazil; Almanacs of the Observatory, 1888-89-90. The Director of the Observatory.
- Monthly Bulletins of the Meteorological Observatory of Mexico. The Observatory.
- Bulletins of the Italian Entomological Society. Prof. Giglioli.



Monatsbericht der Deutschen Seewarte. Der Seewarte.  
Symon's Monthly Meteorological Magazine. The Editor.  
Journal of the Society of Arts, London. The Society.  
Proceeding of the Royal Colonial Institute, Vol. XXI. The Institute.  
Annals of the Malacological Society of Belgium, Tome XXII. The Society.  
Entomological Papers and Pamphlets. H. Edwards.  
Le Potager d'un Curieux, by A. Paillieux. The Author.  
Forty-eight New Zealand Pamphlets. G. Church.  
Easy Lessons in Money Matters, translated into Maori. H. T. Kemp.  
Two New Zealand Pamphlets. A. Nicholson.  
Diary of E. Meurant, 1846; Four Old Newspapers. W. Berry.  
Two Old Newspapers. Capt. Farquhar.

#### BOOKS PURCHASED

Philosophical Transactions of the Royal Society from 1854 to 1884, 31 vols.  
British Museum Catalogue of Birds, Vols. XIII., XV., and XVIII.  
British Museum Catalogue of Marsupialia.  
Life of Chas. Darwin, 3 vols.  
Fisher's Physics of the Earth's Crust.  
Hickson's Naturalist in North Celebes.  
Guillemard's Cruise of the Marchesa.  
Ferrel's Popular Treatise on the Winds.  
Darwin's Cirripedia, Vol. II.  
Weissman's Essays on Heredity.  
Lobley's Mount Vesuvius.  
Grove's Chemical Technology, Vol. I.  
Zoological Record, Vol. XXV.  
Transactions of the Zoological Society, Vols. XI. and XII.  
Illustrations to Wakefield's New Zealand.

Collection of Bornean animals, including stuffed specimens of the following species: Orang-Utan (*Simia Satyrus*), Proboscis Monkey (*Semnopithecus nasalis*), Siamang (*Semnopithecus sp.*), Gibbon Monkey (*Hylobates sp.*), Dog-faced Monkey (*Macacus sp.*), Sun Bear (*Helarctos Malayanus*), Manupalon (*Cynogale sp.*), Palm Cat (*Paradoxurus*), Pygmy Deer (*Tragulid Javanicus*), Flying Squirrel (*Pteromys*), Colugo (*Galeopithecus volans*), Tarsius (*Tarsius spectrum*). Purchased from Mr. C. F. Adams, Illinois, U.S.A.

Skeleton of Bison; Skulls of Fur Seal; and Eared Seal. In exchange from the National Museum, Washington, U.S.A.

Bones of Cave Bear. In exchange from the Canterbury Museum.

Skins of Kangaroo, Opossum, and Wallaby; 13 New Zealand Bird Skins. F. H. Combes.

Living specimens of *Sterna fuliginosa*, *Astelata mollis*, and *A. Cookii*, from the Kermadec Islands. Capt. Fairchild.

Skin of *Phaeton rubricauda*, from the Kermadec Islands.

18 Bird Skins from the Kermadec Islands. T. Bell.

Two New Zealand Bird Skins; New Zealand Birds' Nests and Eggs. G. C. Munro.

Skin of Kiwi (*Apteryx Bulleri*). J. Phillips.

Embryo Kiwi. F. Wilcott.

Egg of Kiwi. F. W. Knaggs.

Skin of Morepork, (*Spiloglanx Nova-Zealandiae*). A. Black.

Skin of Morepork. Capt. Herrold.

Skin of Weka (*Ocydromus greyi*). A. Brown.

Skins of *Diomedea cauta*, *D. culminata*, *Eudyptes Filholi* (2), and *Puffinus griseus*. In exchange from Sir W. L. Buller.



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- Skin of Weka. A. Smithson.  
 Skin of Long-tailed Cuckoo (*Eudynamis taitensis*). R. C. Lawrence.  
 Eggs of Spotted Shag (*Phalacrocorax punctatus*). Miss Bacon.  
 Rats from Howland Island. Captain Tribe.  
 New Zealand Bird Skins. Purchased.  
 Cat Fish (*Kathetostoma monopterygium*). Captain Best.  
 Hammer-head Shark (*Zygona malleus*). A. Morton.  
 Collection of North American Batrachians—(*Amblyostoma punctatum*, *A. opacum*, *A. Jeffersonianum*, *Spelerpes longicauda*, *Menopoma alleghaniensis*, *Necturus maculatus*). In exchange from C. F. Adams, Illinois, U.S.A.  
 Australian Land Shells; New Zealand Land and Freshwater Shells. C. T. Musson.  
 New Zealand Shells. C. Spencer.  
 New Zealand Shells. E. B. Moss.  
 New Zealand Shells, (*Boltonia* sp.). Captain Hawkins.  
 New Zealand Shells. L. Cooper.  
 New Zealand Shells. R. Wright.  
*Sphinx Convolvuli*. J. Munro.  
 Large Spider (*Macrochele Huttoni*). J. Symons.  
 Leaf Insect (*Phasmida*) from Fiji. F. Cornewall.  
 Collection of Volcanic Rocks from Canterbury Province. Prof. F. W. Hutton.  
 Blue Carbonate of Copper. J. A. Pond.  
 Silver Ores from Puhupuhi. D. C. Wilson.  
 Galena from Te Aroha. P. Black.  
 Crystallized Quartz from Coromandel. B. Collins.  
 Collection of Timbers exhibited at the Dunedin Exhibition. The Executors of the late Mr. Justice Gillies.  
 Wood enclosing Kauri Gum. Waitemata Sawmill Company.  
 Prehistoric Stone Implements from Belgium. A. Cels, Brussels.  
 Prehistoric Stone Implements from Central France. L. Garnier, Tahiti.  
 Large Collection of Maori Carvings, Implements, Weapons, etc., containing 143 articles. Deposited by Capt. G. Mair.  
 Elaborately Carved Figure-head and Stern-post of a War Canoe, three Greenstone Meres, one elaborately carved Hani, one Teko-teko. Purchased from Mr. Alma Baker.  
 Maori Stone Axe. E. A. Mackechnie.  
 Maori Stone Axe. A. Condon.  
 Perforated Stone Ornament. I. Munro.  
 Maori Stone Axes. J. Wickham.  
 Kava Bowl, Fijian Pillow, and other ethnological specimens from Fiji and Samoa. Mrs. Claxton.  
 Eighteen Silver Coins and twenty-seven Copper Coins (many of great rarity), three French Assignats. T. W. Kitt.  
 Three Copper Coins. R. Colman.  
 Silver Coin. R. Black.

# LIST OF MEMBERS,

*For the Year ending March 31, 1891.*

[HONORARY AND LIFE MEMBERS DISTINGUISHED THUS \*]

Adams, J., B.A., Thames	Carr, R. C., Remuera
Aickin, G., Auckland	Chambers, J., Auckland
Aitken, W. "	Champtaloup, E., Auckland
Aldis, Prof. "	Cheal, P. E., Thames
Alexander, C. "	Cheeseman, T. F., F.L.S., Auckland
Alexander, J. M., Auckland	Ching, T., Parnell
Atkin, W., Tamaki	Clark, J. M., Remuera
	Clayton, W. T., Auckland
Baber, J., C.E., Remuera	Cochrane, W. S. "
Bagnall, L. J., Thames	Colbeck, Capt., Epsom
Bakewell, R. H., M.D., Auckland	Combes, F. H., Auckland
Baker, Rev. S. W., Auckland	Coom, J., C.E. "
Ball, T., Onehunga	Cooper, C. "
Ball, W. T., Auckland	Cooper, T. "
Bartley, E., Devonport	Cowie, Rt. Rev. W. G., D.D., Bishop of Auckland
Bates, Rev. J., Devonport	Cozens, G., Auckland
*Bates, T. L., Newcastle, N.S.W.	Craig, Mrs. E. "
Batger, J., Auckland	Cranwell, R. "
Beere, D. M., C.E., Ponsonby	Cruikshank, D. B., Auckland
Bell, Dr., Whangarei	Cussen, L., Hamilton
Bell, E., Auckland	
Berry, W., Auckland	Darby, P., Auckland
Blythe, J. C., Rotorua	Davies, W., Whakatane
Bourne, C. F., M.A., Auckland	Davy, T. G., M.R.C.S.E., Ponsonby
Brett, H. "	Dawson, F. W. E., M.R.C.S.E., Auckland
Brigham, J. M. "	Dignan, P. L., Auckland
Brock, A. "	Dignan, Hon. P., Auckland
Brown, Capt. T., F.E.S., Drury	Dufaur, E. T. "
Brown, Prof. F. D., Auckland	Duxfield, R. D., Remuera
Brown, H. "	
Buchanan, J. "	Edson, J., Devonport
Buchanan, W., Devonport	Ehrenfried, L., Auckland
*Buckland, A., Auckland	
Buckland, W. F., Remuera	Fallon, D., Auckland
Buddle, T., Auckland	Farmer, J., London
Bull, G. W., Thames	Fenton, F. D., Kaipara
Eurgess, E. W., Devonport	Fidler, W., Northcote
*Burton, Capt., London	Firth, J. C., Auckland
Burton, W., Lake Takapuna	Fowlds, G. "
	Fox, Sir W. "
Cameron, R., Auckland	Fraser, G. ,,
Campbell, H. "	
Campbell, J. L., M.D., Auckland	
Campbell, Rev. J., Ponsonby	

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George, C. S., Auckland  
Girdler, Dr., Auckland  
Goldie, D. "  
Goldsmith, E. C., Tauranga  
Goodall, J., C.E., Auckland  
Gorrie, W., Auckland  
Grace, L. M., Taupo  
Graham, W. K., London  
Gray, A., Remuera  
Grey, J., Auckland  
Grey, C. "  
Grosch, F. "

Haines, C. H., M.D., F.R.G.S.,  
Auckland  
Hardie, J., Auckland  
Harding, S., C.E., Auckland  
Hazard, H. D. M. "  
Haultain, Hon. Col. "  
Hay, J. "  
Heinitz, R. "  
Heather, A. "  
Henton, J. S. "  
Herapath, P. "  
Hesketh, E. "  
Herbert, T., Parnell  
Hill, W. J., Auckland  
Hobbs, R., M.H.R., Pokeno  
Humphries, T., Auckland  
Hunt, R. R. "  
Hunter, A. J., C.E., Auckland

Ireland, F., Auckland

Johnston, H. D., Rotorua

Kenderdine, J., Auckland  
Kidd, A. "  
Kidd, Rev. R., LL.D., Auckland  
\*Kirk, T., F.L.S., Wellington  
\*Kitt, T. W., Auckland

Lanigan, Pierce, Auckland  
Larkins, F., London  
\*Leaf, C. J., F.L.S., F.G.S., London  
Lennox, J. M., Auckland  
\*Lennox, N. G., Sydney  
Leys, T. W., Auckland  
Lodder, W. "

MacArthur, J. P., Auckland  
Mackechnie, E. A. "  
MacMillan, C. C. "  
Mahoney, T. "  
Mair, Capt. G., Napier  
Mair, R., Whangarei  
Mair, Major W. G., Auckland  
Martin, J., F.G.S. "  
Masfield, T. T. "

\*Meinertzhagen, F. M., Napier  
McCullough, W., Auckland  
McLachlan, J. M., Auckland  
McLaurin, J. "  
Moat, W. P., Mahurangi  
Moody, T. P., Kawakawa  
Morton, H. B., Auckland  
Morrin, T. "  
Monro, H. A. H., Parnell  
Munro, G. C., Clevedon  
Murdoch, D. L., Auckland  
Murray, T. L., Thames

Nathan, L. D., Auckland

Orchiston, W., Auckland  
O'Rourke, Sir G. M. "  
Owen, G. B. "

Park, Jas., F.G.S., Thames  
Paul, Rev. J. S., Onehunga  
Peacock, T., Auckland  
Percival, H., Parnell  
Pierce, G. P., Auckland  
Plumley, E. A. "  
Pond, J. A. "  
Purchas, Rev. A. G., M.R.C.S.E.,  
Auckland  
Purchas, A. C., M.D., Auckland

Rathbone, —, Auckland  
Reid, J. "  
Ring, C. "  
Robertson, J. "  
Robertson, Dr. "  
Rose, R. "  
Russell, Jas. "  
Russell, J. B. "  
\*Russell, T., London

Sanders, C. W., Parnell  
Scott West, Rev. R. J., Mt. Eden  
Seegner, C., Auckland  
Shaw, H. "  
Shrewsbury, A., Parnell  
Simpson, F., Whangarei  
Sinclair, A., Auckland  
Smith, A. R. "  
Smith, H. G. S., Wellington  
\*Smith, S. P., F.R.G.S., Wellington  
Steel, T., Melbourne  
Stewart, J., C.E., Auckland

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Thomas, Professor A. P. W., F.L.S.,  
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Thomson, H., Auckland  
\*Tinne, H., London  
Tinne, T. F. S., London

Upton, J. H., Auckland  
Urquhart, A. T., Karaka

Vaile, S., Auckland  
Von Sturmer, E. S., Auckland

Wade, H. G., Auckland  
Wallis, Rev. Dr. „  
Walsh, Rev. P., Waimate  
Waymouth, J., Auckland  
Webb, F. R. „

Webster, J., Hokianga  
\*Weetman, S., F.R.G.S., New  
Plymouth

Whitaker, Sir F., Auckland  
Wildman, W. „

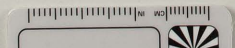
Will, W. „  
Williams, Ven. Archdeacon W. L.,  
Gisborne

Williamson, C., Auckland  
Wilson, H. M., Warkworth  
Wilson, W. S., Auckland  
Winks J., Parnell

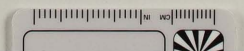
\*Withy, E., Remuera  
Worthington, H., Auckland  
Wright, F. W., L.M.B., Toronto,  
Parnell



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